## AMENDMENTS TO THE CLAIMS

## Claim amendments and status:

1. (Previously Presented) A generic device controller unit system for facilitating interaction between a processor and any number of peripheral devices, the system comprising:

a general purpose device controller employing asynchronous true real time peripheral device control, wherein the device controller interfaces between a non-true real time operating system and the peripheral devices, thereby allowing a non-true real time operating system to implement true real time control of the peripheral devices; and

a data and protocol communications interface, wherein the communications interface connects the processor and the peripheral devices, thereby allowing the processor to utilize a single protocol and associated data to communicate with the peripheral devices which may be utilizing protocols and associated data which are different than that used by the processor.

- 2. (Original) The system of Claim 1, wherein the generic device controller unit system produces true real time peripheral device control while interfaced with a non-true real time operating system running standard non-true real time software.
- 3. (Original) The system of Claim 1, wherein the generic device controller unit system functions as a distributed processing environment.
- 4. (Original) The system of Claim 1, wherein the generic device controller unit system further includes customized system drivers.
- 5. (Original) The system of Claim 1, wherein Universal Serial Bus is the default communication protocol between the generic device controller unit system and the processor.
- 6. (Original) The system of Claim 2, wherein the generic device controller unit system interfaces with the non-true real time operating system that functions in a Win32 environment.

- 7. (Original) The system of Claim 1, wherein the generic device controller unit system is an input/output device interface for a processor to peripheral devices.
- 8. (Original) The system of Claim 1, wherein the generic device controller unit system provides real time device control to resource management capabilities of a standard non-true real time operating system.
- 9. (Original) The system of Claim 1, wherein the generic device controller unit system produces true real time peripheral device control without the higher level functionality of the processor.
- 10. (Original) The system of Claim 1, wherein the generic device controller unit system produces true real time peripheral device control without the processor using a true real time kernel.
- 11. (Original) The system of Claim 1, wherein the generic device controller unit system produces true real time peripheral device control without the processor utilizing a layered true real time operating system.
- 12. (Previously Presented) A generic device controller unit system for facilitating interaction between a processor and any number of peripheral devices, the system comprising:
- a general purpose device controller employing asynchronous true real time peripheral device control, wherein the device controller allows a non-true real time operating system to interface with various non-specific peripheral devices, thereby allowing a non-true real time operating system to implement true real time control of peripheral devices without a processor requiring either a real time kernel or a layered true real time operating system.
- 13. (Original) The system of Claim 12, wherein the generic device controller unit system produces true real time peripheral device control while interfaced with a non-true real time operating system running standard non-true real time software.

- 14. (Original) The system of Claim 12, wherein the generic device controller unit system functions as a distributed processing environment.
- 15. (Original) The system of Claim 12, wherein the generic device controller unit system is an input/output device interface for the processor to the peripheral devices.
- 16. (Original) The system of Claim 12, wherein the generic device controller unit system provides real time device control to resource management capabilities of a standard non-true real time operating system.
- 17. (Original) The system of Claim 12, wherein the generic device controller unit system produces true real time peripheral device control without the higher level functionality of the processor.
- 18. (Original) The system of Claim 12, wherein the generic device controller unit system interfaces with the non-true real time operating system that functions in a Win32 environment.
- 19. (Previously Presented) A generic device controller unit system for providing a data and protocol communications interface which facilitates interaction between a processor and any number of peripheral devices, the system comprising:

an asynchronous general device data and protocol communications interface, wherein the communications interface connects a processor and various peripheral devices, thereby allowing the processor to utilize a single protocol and associated data to communicate with the various peripheral devices which may utilize different protocols and associated data than that used by the processor.

- 20. (Original) The system of Claim 19, wherein the generic device controller unit system functions as a distributed processing environment.
- 21. (Original) The system of Claim 19, wherein Universal Serial Bus is the default communication protocol used between the generic device controller unit system and the processor.

- 22. (Original) The system of Claim 19, wherein the generic device controller unit system is an input/output device interface for the processor to the peripheral devices.
- 23. (Original) The system of Claim 19, wherein the generic device controller unit system produces protocol and associated data translation without the higher level functionality of the processor.
- 24. (Previously Presented) A method for providing a data and protocol communications interface to facilitate interaction between a processor and any number of peripheral devices, the method comprising:

interfacing between a non-true real time operating system and various non-specific peripheral devices;

employing asynchronous true real time peripheral device control through a generic device controller unit, wherein the device controller allows the processor to implement true real time control of the peripheral devices without the non-true real time operating system requiring either a real time kernel or a layered true real time operating system; and

providing a protocol and associated data communications interface between the processor and the peripheral devices, thereby allowing the processor to utilize a single protocol and associated data to communicate with the peripheral devices which may utilize different protocols and associated data than that used by the processor.

- 25. (Original) The method of Claim 24, further comprising:
- producing true real time peripheral device control while interfaced with a non-true real time operating system running standard non-true real time software.
- 26. (Original) The method of Claim 24, wherein the generic device controller unit functions as a distributed processing environment.

- 27. (Original) The method of Claim 24, wherein the generic device controller unit further includes customized system drivers.
- 28. (Original) The method of Claim 24, wherein Universal Serial Bus is the default communication protocol between the generic device controller unit and a processor.
- 29. (Original) The method of Claim 24, wherein the generic device controller unit interfaces with a non-true real time operating system that functions in a Win32 environment.
  - 30. (Original) The method of Claim 24, further comprising:

    providing an input/output device interface from the processor to the peripheral devices.
- 31. (Original) The method of Claim 24, further comprising:

  providing real time device control to resource management capabilities of a standard nontrue real time operating system.
- 32. (Original) The method of Claim 24, further comprising: producing true real time peripheral device control without the higher level functionality of the processor.
- 33. (Original) The method of Claim 24, further comprising: producing true real time peripheral device control without the processor utilizing a true real time kernel.
- 34. (Original) The method of Claim 24, further comprising:

  producing true real time peripheral device control without the non-true real time operating system being a layered true real time operating system.